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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

10/01/2002

RICHARD K. WARTHER ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST, P.A. 255 SOUTH ORANGE AVENUE SUITE 1401 P.O. BOX 3791 ORLANDO, FL 32802-3791

EXAMINER			
CLINGER, JAMES C			
ART UNIT	CLASS-SUBCLASS		
2821	343-853000		

DATE MAILED: 10/01/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/846.786	05/01/2001	Brian P. Holt	51126CON1	5140

TITLE OF INVENTION: HIGH CAPACITY BROADBAND CELLULAR/PCS BASE STATION USING A PHASED ARRAY ANTENNA

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$300	\$1580	01/02/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

(703)746-4000 **Fax**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block I 10/01/2002 RICHARD K. WARTHER ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST, P.A. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile 255 SOUTH ORANGE AVENUE SUITE 1401 P.O. BOX 3791 transmitted to the USPTO, on the date indicated below. ORLANDO, FL 32802-3791 (Depositor's name) (Date) APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO 05/01/2001 51126CON1 5140 09/846.786 Brian P. Holt TITLE OF INVENTION: HIGH CAPACITY BROADBAND CELLULAR/PCS BASE STATION USING A PHASED ARRAY ANTENNA PUBLICATION FEE SMALL ENTITY ISSUE FEE TOTAL FEE(S) DUE DATE DUE APPLN. TYPE nonprovisional \$1280 \$1580 01/02/2003 **EXAMINER** ART UNIT CLASS-SUBCLASS CLINGER, JAMES C 343-853000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. single firm (having as a member a registered attorney or agent) and the names of up to 2 ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer registered patent attorneys or agents. If no name is listed, no name will be printed. Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE Please check the appropriate assignee category or categories (will not be printed on the patent) ☐ individual ☐ corporation or other private group entity ☐ government 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ A check in the amount of the fee(s) is enclosed. ☐ Issue Fee ☐ Payment by credit card. Form PTO-2038 is attached. ☐ Publication Fee ☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____(enclose an extra copy of this form). ☐ Advance Order - # of Copies _ Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Date) (Authorized Signature) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Commissioner for Patents, Washington, DC 20231.

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7590 10/01/2002 RICHARD K. WARTHER ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST, P.A. 255 SOUTH ORANGE AVENUE SUITE 1401			EXAMINER		
			CLINGER, JAMES C		
			ART UNIT	PAPER NUMBER	
P.O. BOX 3791			2821		
ORLANDO, FL 32	2802-3791			DATE MAILED: 10/01/2002	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



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7:	590 10/01/2002		EXAMIN	ER
RICHARD K. WARTHER ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST, P.A.			CLINGER, JAMES C	
, ,	NGE AVENUE SUITE	· · · · · · · · · · · · · · · · · · ·	ART UNIT	PAPER NUMBER
P.O. BOX 3791			2821	
ORLANDO, FL 32802-3791 UNITED STATES		TE MAILED: 10/01/2002		

Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking. 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Notice of Allowability

Application No. 09/846,786

Applicant(s)

Holt et al.

Examiner

Jim Clinger

Art Unit 2821

The MAILING DATE of this communication appears on the cover sheet wit	h the correspondence address
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communicating THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPERICAL CONTRACT OF THE PROPERTY OF THE PROPERT	on will be mailed in due course. n is subject to withdrawal from issue at
1. X This communication is responsive to the Terminal Disclaimer filed September	<i>16, 2002</i> .
2. X The allowed claim(s) is/are 10-19	·
3. X The drawings filed on May 1, 2001 are accepted by the Examiner.	
4. Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 1	19(a)-(d).
a) □ All b) □ Some* c) □ None of the:	
1. Certified copies of the priority documents have been received.	
2. Certified copies of the priority documents have been received in Application	ation No
 Copies of the certified copies of the priority documents have been rece application from the International Bureau (PCT Rule 17.2(a)). 	·
*Certified copies not received:	•
5. \square Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §	119(e) (to a provisional application).
(a) \square The translation of the foreign language provisional application has been re-	ceived.
6. 🛛 Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §	§ 120 and/or 121.
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file noted below. Failure to timely comply will result in ABANDONMENT of this application. TEXTENDABLE.	e a reply complying with the requirements HIS THREE-MONTH PERIOD IS NOT
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EX INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath of	AMINER'S AMENDMENT or NOTICE OF or declaration is deficient.
8. CORRECTED DRAWINGS must be submitted.	
(a) \square including changes required by the Notice of Draftsperson's Patent Drawing	g Review (PTO-948) attached
1) hereto or 2) to Paper No	
(b) including changes required by the proposed drawing correction filed approved by the examiner.	, which has been
(c) \square including changes required by the attached Examiner's Amendment/Comm Paper No	nent or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the each sheet. The drawings should be filed as a separate paper with a transmittal letter address	ne drawings in the top margin (not the back) of sed to the Official Draftsperson.
9. \square DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATER attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT O	
Attachment(s)	
	of Informal Patent Application (PTO-152)
	iew Summary (PTO-413), Paper No
	ner's Amendment/Comment
7 Lexaminer's Comment Regarding Requirement for Deposit of Biological 8 X Exami Material	ner's Statement of Reasons for Allowance
9 Other Don Wong	

Supervisory Patent Examiner Technology Center 2800 Art Unit: 2821

DETAILED ACTION

Terminal Disclaimer

1. The terminal disclaimer filed on September 16, 2002 disclaiming the terminal portion of any patent granted on this application has been reviewed and is accepted. The terminal

disclaimer has been recorded.

Allowable Subject Matter

2. Claims 10-19 are allowed.

3. The following is an examiner's statement of reasons for allowance. The claims of this application are distinguished over the prior art by the limitations concerning the digital representation from each antenna element being divided into receive channels and the individual channels being combined into a single transmission channel.

Proper motivation for combining references disclosing the recited receive channel and transmit channel signal processing with references disclosing the remaining recited limitations of the claims of this application was not found in the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2821

Correspondence

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Jim Clinger whose phone number is (703) 305-0619.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center whose telephone number is (703) 308-0956.

Papers related to Technology Center 2800 applications only may be submitted to Technology Center 2800 by facsimile transmission. Any transmission not to be considered an official response must be clearly marked "DRAFT". The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Technology Center Fax Center number is (703) 308-7722 or (703) 308-7724.

Supervisory Patent Examiner Technology Center 2800